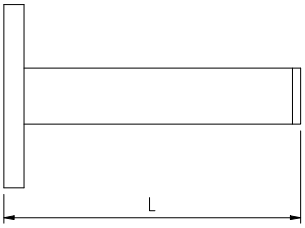
7 Waveguide Termination (Dummy Load)

7.1 Waveguide Termination

Vector Telecom's standard product line of low power terminations utilizes precision conical load elements for optimum electrical performance. This series of terminations is designed for low power input. Normally VSWR is less than 1.03 over the full waveguide bandwidth.



【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	VSWR (Max)	Sliding Distance (mm)	Flange	Material
VT14WSL...	WR650	1.13-1.73	1.05	≥70	FDP	Cu
VT18WSL...	WR510	1.45-2.20	1.05	≥55	FDP	Cu
VT22WSL...	WR430	1.72-2.61	1.05	≥45	FDP	Cu
VT26WSL...	WR340	2.17-3.30	1.05	≥36	FDP	Cu
VT32WSL...	WR284	2.60-3.95	1.05	≥30	FDP	Cu
VT40WSL...	WR229	3.22-4.90	1.05	≥25	FDP	Cu
VT48WSL...	WR187	3.94-5.99	1.05	≥20	FDP	Cu
VT58WSL...	WR159	4.64-7.05	1.05	≥17	FDP	Cu
VT70WSL...	WR137	5.38-8.17	1.05	≥15	FDP	Cu
VT84WSL...	WR112	6.57-9.99	1.05	≥24	FBP	Cu
VT100WSL...	WR90	8.20-12.40	1.05	≥20	FBP	Cu
VT120WSL...	WR75	9.84-15.0	1.05	≥16	FBP	Cu
VT140WSL...	WR62	11.9-18.0	1.05	≥13	FBP	Cu
VT180WSL...	WR51	14.5-22.0	1.05	≥11	FBP	Cu
VT220WSL...	WR42	17.6-26.7	1.05	≥9	FBP	Cu
VT260WSL...	WR34	21.7-33.0	1.05	≥7.2	FBP	Cu
VT320WSL...	WR28	26.5-40.0	1.05	≥9	FBP	Cu
VT400WSL...	WR22	32.9-50.1	1.15	≥2	FUGP	Cu
VT500WSL...	WR19	39.2-59.6	1.15	≥4	FUGP	Cu
VT620WSL...	WR15	49.8-75.8	1.15	≥3.3	FUGP	Cu
VT740WSL...	WR12	60.5-91.9	1.15	≥2.6	FUGP	Cu
VT900WSL...	WR10	73.8-110	1.15	≥2.1	FUGP	Cu

**Indicates Model Number. See Ordering Information for complete part number.*

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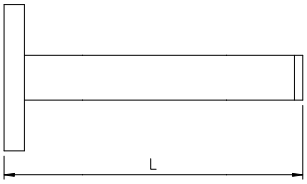
7.2 Small Size Waveguide Termination



【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	Working Bandwidth	VSWR (Max)	Length L (mm)	Flange	Material
VT3WLS...	WR2300	0.32-0.49	10%	1.07	300-600	FDP	Al
VT4WLS...	WR2100	0.35-0.53	10%	1.07	250-550	FDP	Al
VT5WLS...	WR1800	0.41-0.62	10%	1.07	250-500	FDP	Al
VT6WLS...	WR1500	0.49-0.75	10%	1.07	200-400	FDP	Al
VT8WLS...	WR1150	0.64-0.98	10%	1.07	170-350	FDP	Al
VT9WLS...	WR975	0.75-1.15	10%	1.07	150-300	FDP	Al
VT12WLS...	WR770	0.96-1.46	10%	1.05	120-250	FDP	Al
VT14WLS...	WR650	1.13-1.73	10%	1.05	100-200	FDP	Al
VT18WLS...	WR510	1.45-2.20	10%	1.05	70-150	FDP	Al
VT22WLS...	WR430	1.72-2.61	10%	1.05	60-130	FDP	Al
VT26WLS...	WR340	2.17-3.30	10%	1.05	50-100	FDP	Al
VT32WLS...	WR284	2.60-3.95	10%	1.05	40-90	FDP	Al
VT40WLS...	WR229	3.22-4.90	10%	1.05	40-80	FDP	Al
VT48WLS...	WR187	3.94-5.99	10%	1.05	40-70	FDP	Al
VT58WLS...	WR159	4.64-7.05	10%	1.05	30-60	FDP	Al
VT70WLS...	WR137	5.38-8.17	10%	1.05	25-50	FDP	Cu
VT84WLS...	WR112	6.57-9.99	10%	1.05	20-40	FBP	Cu
VT100WLS...	WR90	8.20-12.40	10%	1.05	15-30	FBP	Cu
VT120WLS...	WR75	9.84-15.0	10%	1.05	15-30	FBP	Cu
VT140WLS...	WR62	11.9-18.0	10%	1.05	10-20	FBP	Cu
VT180WLS...	WR51	14.5-22.0	10%	1.05	10-20	FBP	Cu
VT220WLS...	WR42	17.6-26.7	10%	1.05	10-18	FBP	Cu
VT260WLS...	WR34	21.7-33.0	10%	1.07	10-18	FBP	Cu
VT320WLS...	WR28	26.5-40.0	10%	1.07	8-15	FBP	Cu
VT400WLS...	WR22	32.9-50.1	10%	1.10	7-15	FUGP	Cu
VT500WLS...	WR19	39.2-59.6	10%	1.10	6-12	FUGP	Cu
VT620WLS...	WR15	49.8-75.8	10%	1.10	6-12	FUGP	Cu
VT740WLS...	WR12	60.5-91.9	10%	1.15	5-10	FUGP	Cu
VT900WLS...	WR10	73.8-110	10%	1.15	5-10	FUGP	Cu

**Indicates Model Number. See Ordering Information for complete part number.*

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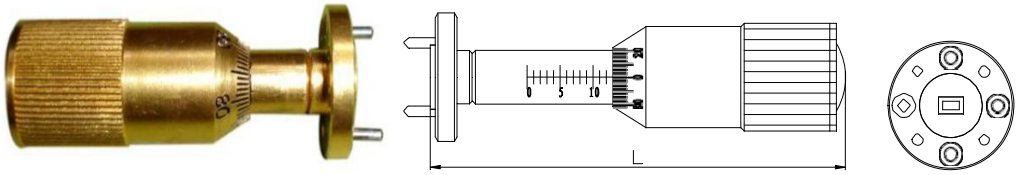
7.3 Waveguide Sliding Termination

Vector Telecom's standard product line of waveguide sliding termination used in microwave precision measurement or system. The sliding distance of sliding load can be divided into 180° and 360°.



【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	VSWR (Max)	Sliding Distance (mm)	Flange	Material
VT14WSL...	WR650	1.13-1.73	1.05	≥70	FDP	Cu
VT18WSL...	WR510	1.45-2.20	1.05	≥55	FDP	Cu
VT22WSL...	WR430	1.72-2.61	1.05	≥45	FDP	Cu
VT26WSL...	WR340	2.17-3.30	1.05	≥36	FDP	Cu
VT32WSL...	WR284	2.60-3.95	1.05	≥30	FDP	Cu
VT40WSL...	WR229	3.22-4.90	1.05	≥25	FDP	Cu
VT48WSL...	WR187	3.94-5.99	1.05	≥20	FDP	Cu
VT58WSL...	WR159	4.64-7.05	1.05	≥17	FDP	Cu
VT70WSL...	WR137	5.38-8.17	1.05	≥15	FDP	Cu
VT84WSL...	WR112	6.57-9.99	1.05	≥24	FBP	Cu
VT100WSL...	WR90	8.20-12.40	1.05	≥20	FBP	Cu
VT120WSL...	WR75	9.84-15.0	1.05	≥16	FBP	Cu
VT140WSL...	WR62	11.9-18.0	1.05	≥13	FBP	Cu
VT180WSL...	WR51	14.5-22.0	1.05	≥11	FBP	Cu
VT220WSL...	WR42	17.6-26.7	1.05	≥9	FBP	Cu
VT260WSL...	WR34	21.7-33.0	1.05	≥7.2	FBP	Cu
VT320WSL...	WR28	26.5-40.0	1.05	≥9	FBP	Cu
VT400WSL...	WR22	32.9-50.1	1.15	≥2	FUGP	Cu
VT500WSL...	WR19	39.2-59.6	1.15	≥4	FUGP	Cu
VT620WSL...	WR15	49.8-75.8	1.15	≥3.3	FUGP	Cu
VT740WSL...	WR12	60.5-91.9	1.15	≥2.6	FUGP	Cu
VT900WSL...	WR10	73.8-110	1.15	≥2.1	FUGP	Cu

**Indicates Model Number. See Ordering Information for complete part number.*

7.4 Waveguide Unmatched Termination

Vector Telecom offers a full waveguide series of waveguide unmatched load. Normally VSWR value selection is 1.2-2.0, and accuracy is VSWR±0.02 over the full waveguide bandwidth.

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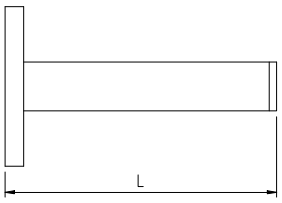
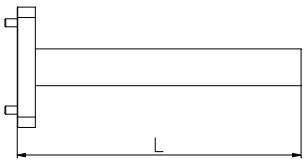


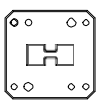
【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	VSWR (Max)	Length L (mm)	Flange	Material
VT5WUL...	WR1800	0.41-0.62	1.2/1.5/2.0	1600	FDP	Al
VT6WUL...	WR1500	0.49-0.75	1.2/1.5/2.0	1300	FDP	Al
VT8WUL...	WR1150	0.64-0.98	1.2/1.5/2.0	1100	FDP	Al
VT9WUL...	WR975	0.75-1.15	1.2/1.5/2.0	660	FDP	Al
VT12WUL...	WR770	0.96-1.46	1.2/1.5/2.0	680	FDP	Al
VT14WUL...	WR650	1.13-1.73	1.2/1.5/2.0	570	FDP	Al
VT18WUL...	WR510	1.45-2.20	1.2/1.5/2.0	550	FDP	Al
VT22WUL...	WR430	1.72-2.61	1.2/1.5/2.0	470	FDP	Al
VT26WUL...	WR340	2.17-3.30	1.2/1.5/2.0	350	FDP	Al
VT32WUL...	WR284	2.60-3.95	1.2/1.5/2.0	278	FDP	Al
VT40WUL...	WR229	3.22-4.90	1.2/1.5/2.0	275	FDP	Al
VT48WUL...	WR187	3.94-5.99	1.2/1.5/2.0	170	FDP	Al
VT58WUL...	WR159	4.64-7.05	1.2/1.5/2.0	135	FDP	Al
VT70WUL...	WR137	5.38-8.17	1.2/1.5/2.0	180	FDP	Cu
VT84WUL...	WR112	6.57-9.99	1.2/1.5/2.0	100	FBP	Cu
VT100WUL...	WR90	8.20-12.40	1.2/1.5/2.0	100	FBP	Cu
VT120WUL...	WR75	9.84-15.0	1.2/1.5/2.0	90	FBP	Cu
VT140WUL...	WR62	11.9-18.0	1.2/1.5/2.0	90	FBP	Cu
VT180WUL...	WR51	14.5-22.0	1.2/1.5/2.0	75	FBP	Cu
VT220WUL...	WR42	17.6-26.7	1.2/1.5/2.0	60	FBP	Cu
VT260WUL...	WR34	21.7-33.0	1.2/1.5/2.0	55	FBP	Cu
VT320WUL...	WR28	26.5-40.0	1.2/1.5/2.0	40	FBP	Cu
VT400WUL...	WR22	32.9-50.1	1.2/1.5/2.0	40	FUGP	Cu
VT500WUL...	WR19	39.2-59.6	1.2/1.5/2.0	40	FUGP	Cu
VT620WUL...	WR15	49.8-75.8	1.2/1.5/2.0	40	FUGP	Cu
VT740WUL...	WR12	60.5-91.9	1.2/1.5/2.0	38	FUGP	Cu
VT900WUL...	WR10	73.8-110	1.2/1.5/2.0	35	FUGP	Cu

**Indicates Model Number. See Ordering Information for complete part number.*

7.5 Double-Ridged Waveguide Termination





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【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	Avg Power (W)	VSWR (Max)	Length L(mm)	Flange	Material
VT84DRWL...	WRD84	0.84-2	5	1.15	720	FP	Al
VT150DRWL...	WRD150	1.5-3.6	5	1.15	650	FP	Al
VT200DRWL...	WRD200	2-4.8	5	1.15	340	FP	Al
VT250DRWL...	WRD250	2.6-7.8	5	1.15	300	FP	Al
VT350DRWL...	WRD350	3.5-8.2	5	1.15	260	FP	Al
VT475DRWL...	WRD475	4.75-11	2	1.15	200	FP	Al
VT500DRWL...	WRD500	5-18	2	1.15	210	FP	Al
VT580DRWL...	WRD580	5.8-16	2	1.15	210	FP	Al
VT650DRWL...	WRD650	6.5-18	1	1.15	102	FP	Cu
VT750DRWL...	WRD750	7.5-18	1	1.15	140	FP	Cu
VT700DRWL...	WRD700	7-18.5	1	1.15	200	FP	Cu
VT1100DRWL...	WRD110	11-26.5	1	1.15	150	FP	Cu
VT1800DRWL...	WRD180	18-40	1	1.15	109	FP	Cu

** Indicates Model Number. See Ordering Information for complete part number.*

【Ordering Information】

Example Part No: VT 320 DRWWL 1.03 P C

- Vector Telecom
- WG Type:R320
- Product Type:Double Ridged WG Termination
- VSWR:1.03
- Flange Type:P=FBP320
- A=Aluminum C=Copper

Code	Description
WL	Waveguide Termination
DRWL	Double Ridged Waveguide Termination
WSL	Waveguide Sliding Termination
WUL	Waveguide Unmatched Termination
DRWL	Double Ridged Waveguide Termination

- Flange type: Multiple types available - see VT Flanges page
- Finish: Corrosion protection plus black top coat

7.6 Circular Waveguide Termination

【Specifications】

Model No*	Freq Range (GHz)	Inner Diameter Φ(mm)	VSWR (Max)	Length L (mm)
VT114.58CWL...	1.76~2.42	114.58	1.15	580
VT97.87CWL...	2.1~2.8	97.87	1.15	470

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Model No*	Freq Range (GHz)	Inner Diameter Φ(mm)	VSWR (Max)	Length L (mm)
VT83.62CWL...	2.45~3.3	83.62	1.15	400
VT71.42CWL...	2.83~3.88	71.42	1.15	360
VT51.99CWL...	3.9~5.3	51.99	1.15	300
VT44.45CWL...	4.55~6.23	44.45	1.15	250
VT38.1CWL...	5.3~7.3	38.1	1.15	190
VT32.537CWL...	6.3~8.5	32.537	1.15	170
VT27.788CWL...	7.3~9.5	27.788	1.15	160
VT23.825CWL...	8.5~11.5	23.825	1.15	150
VT17.415CWL...	11.6~15.9	17.415	1.15	140
VT15.088CWL...	13.4~18.4	15.088	1.15	130
VT12.7CWL...	15.9~21.8	12.7	1.15	120
VT9.525CWL...	21.2~29.1	9.525	1.15	100
VT8.331CWL...	24.3~33.2	8.331	1.15	80
VT7.137CWL...	28.3~38.8	7.137	1.15	70
VT5.563CWL...	36.4~49.8	5.563	1.15	65
VT4.369CWL...	46.3~63.5	4.369	1.15	50
VT3.581CWL...	56.6~77.5	3.581	1.15	45
VT3.175CWL...	63.5~87.2	3.175	1.15	45
VT2.388CWL...	84.8~116.0	2.388	1.15	45

**Indicates Model Number. See Ordering Information for complete part number.*

【Ordering Information】

Example Part No: VT 12.7 CWL 1.15 C

- Vector Telecom
- Circular WG Inner Diameter:12.7mm
- Product Type:Circular WG Termination
- VSWR:1.15
- A=Aluminum C=Copper

- Flange type: Multiple types available - see VT Flanges page
- Finish: Corrosion protection plus black top coat

7.7 High Power Waveguide Termination

【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	Avg Power (W)	VSWR (Max)	Flange	Material
VT3WHPL...	WR2300	0.32-0.49	10-4000	1.25	FDP	Al
VT4WHPL...	WR2100	0.35-0.53	10-4000	1.25	FDP	Al

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Model No*	WG Type EIA	Freq Range (GHz)	Avg Power (W)	VSWR (Max)	Flange	Material
VT5WHPL...	WR1800	0.41-0.62	10-4000	1.25	FDP	Al
VT6WHPL...	WR1500	0.49-0.75	10-4000	1.25	FDP	Al
VT8WHPL...	WR1150	0.64-0.98	10-4000	1.25	FDP	Al
VT9WHPL...	WR975	0.75-1.15	10-4000	1.25	FDP	Al
VT12WHPL...	WR770	0.96-1.46	10-4000	1.25	FDP	Al
VT14WHPL...	WR650	1.13-1.73	10-4000	1.25	FDP	Al
VT18WHPL...	WR510	1.45-2.20	10-4000	1.25	FDP	Al
VT22WHPL...	WR430	1.72-2.61	10-4000	1.25	FDP	Al
VT26WHPL...	WR340	2.17-3.30	10-4000	1.25	FDP	Al
VT32WHPL...	WR284	2.60-3.95	10-4000	1.25	FDP	Al
VT40WHPL...	WR229	3.22-4.90	10-4000	1.25	FDP	Al
VT48WHPL...	WR187	3.94-5.99	10-4000	1.25	FDP	Al
VT58WHPL...	WR159	4.64-7.05	10-4000	1.25	FDP	Al
VT70WHPL...	WR137	5.38-8.17	10-3000	1.25	FDP	Cu
VT84WHPL...	WR112	6.57-9.99	10-3000	1.25	FBP	Cu
VT100WHPL....	WR90	8.20-12.40	10-3000	1.25	FBP	Cu
VT120WHPL...	WR75	9.84-15.0	10-3000	1.25	FBP	Cu
VT140WHPL...	WR62	11.9-18.0	10-1000	1.25	FBP	Cu
VT180WHPL...	WR51	14.5-22.0	10-1000	1.25	FBP	Cu
VT220WHPL...	WR42	17.6-26.7	10-600	1.25	FBP	Cu
VT260WHPL...	WR34	21.7-33.0	10-600	1.25	FBP	Cu
VT320WHPL...	WR28	26.5-40.0	10-600	1.25	FBP	Cu
VT400WHPL...	WR22	32.9-50.1	10-600	1.25	FUGP	Cu
VT500WHPL...	WR19	39.2-59.6	10-300	1.25	FUGP	Cu

**Indicates Model Number. See Ordering Information for complete part number.*

7.8 Double-Ridged High Power Waveguide Termination

【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	Avg Power (W)	VSWR (Max)	Flange	Material
VT84DRWHPL...	WRD84	0.84-2	10-2000	1.25	FP	Al
VT150DRWHPL...	WRD150	1.5-3.6	10-2000	1.25	FP	Al
VT200DRWHPL...	WRD200	2-4.8	10-2000	1.25	FP	Al
VT250DRWHPL...	WRD250	2.6-7.8	10-2000	1.25	FP	Al
VT350DRWHPL...	WRD350	3.5-8.2	10-2000	1.25	FP	Al

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Model No*	WG Type EIA	Freq Range (GHz)	Avg Power (W)	VSWR (Max)	Flange	Material
VT475DRWHPL...	WRD475	4.75-11	10-1000	1.25	FP	Al
VT500DRWHPL...	WRD500	5-18	10-1000	1.25	FP	Al
VT580DRWHPL...	WRD580	5.8-16	10-1000	1.25	FP	Al
VT650DRWHPL...	WRD650	6.5-18	10-1000	1.25	FP	Cu
VT750DRWHPL...	WRD750	7.5-18	10-1000	1.25	FP	Cu
VT700DRWHPL...	WRD700	7-18.5	10-1000	1.25	FP	Cu
VT1100DRWHPL...	WRD110	11-26.5	10-600	1.25	FP	Cu
VT1800DRWHPL...	WRD180	18-40	10-600	1.25	FP	Cu

**Indicates Model Number. See Ordering Information for complete part number.*

【Ordering Information】

Example Part No: VT 100 WHPL 500 C

- VT — Vector Telecom
- 100 — WG Type: WR90
- WHPL — Waveguide High Power Termination
- 500 — Power: 500W
- C — Material: A=Aluminum, C=Copper

Code	Description
WHPL	Waveguide High Power Termination
DRWHPL	Double Ridged Waveguide High Power Termination

- Flange type: Multiple types available - see VT Flanges page
- Finish: Corrosion protection plus black top coat

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